

ABSTRACT OF THE DISCLOSURE

A process and apparatus for generating hydrogen from oil shale. Crushed oil shale may be placed in a chamber and combusted with carbon monoxide, oxygen and steam to form a gas stream of hydrogen and carbon monoxide. The hydrogen and carbon monoxide stream may be passed through a mechanism to produce hydrogen. In one embodiment, the hydrogen and carbon monoxide stream may be passed through a catalytic converter to produce hydrogen and carbon dioxide. The hydrogen and carbon dioxide may be cooled further and passed through a scrubber to remove the carbon dioxide such that hydrogen is produced. In another embodiment, the hydrogen and carbon monoxide may be passed through fluidized beds of magnetite to produce the hydrogen.

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